

Record 24: JP58013605A**(ENG) PREPARATION OF ETHYLENIC COPOLYMER****Assignee:** SHOWA DENKO KK

[no drawing available]

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KENJI**Application No:** JP 11230181 A**Filing Date:** 19810720**Issue/Publication Date:** 19830126

Abstract: (ENG) <sec>PURPOSE: To obtain the titled copolymer having improved impact strength, environmental stress cracking resistance, and molding properties, causing few granular structure and low irregularity of a molded article, by polymerizing two kinds of copolymers having different intrinsic viscosities and a specific viscosity ratio by a Ziegler catalyst having a particular specific activity by two-steps.

CONSTITUTION: By using a highly active Ziegler catalyst having a specific activity (RSpH) \geq 800g/g hr ethylene pressure kg/cm² in polymerization of a polyethylene having an intrinsic viscosity (η_{sp}) of =1 and a ratio of a specific activity RSpL in polymerization of a polyethylene having an intrinsic viscosity (η_{sp}) of \geq 2 to the above-mentioned RSpH or $1 \leq RSpL/RSpH \leq 3$, 30W70wt% copolymer of ethylene and \geq 5C α -olefin having an intrinsic viscosity (η_{sp})_a of \geq 2 is formed, and 70W30wt% copolymer of ethylene and \geq 5C α -olefin having an intrinsic viscosity (η_{sp})_b of 0.3W1.0, to give the desired copolymer having a ratio of (η_{sp})_a / (η_{sp})_b of 4.5W9.0 and an intrinsic viscosity (η_{sp})_c of 2.0W3.5. </sec>

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